

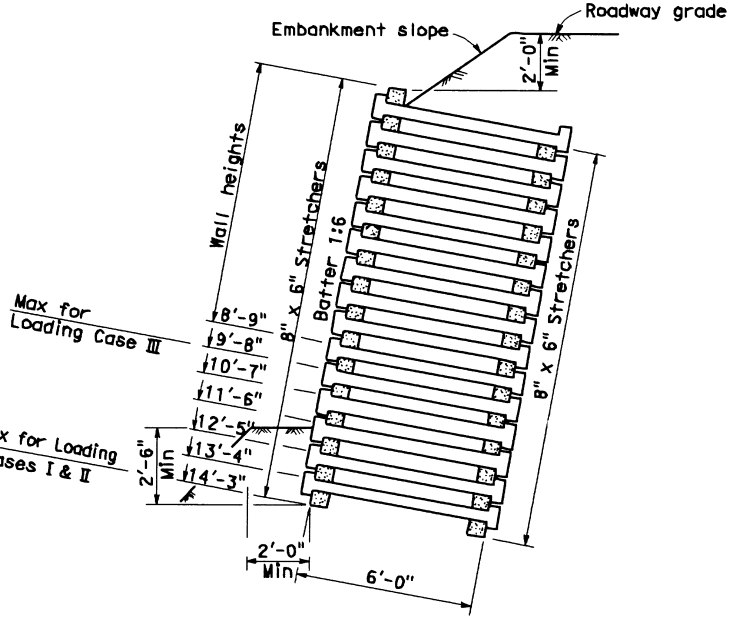
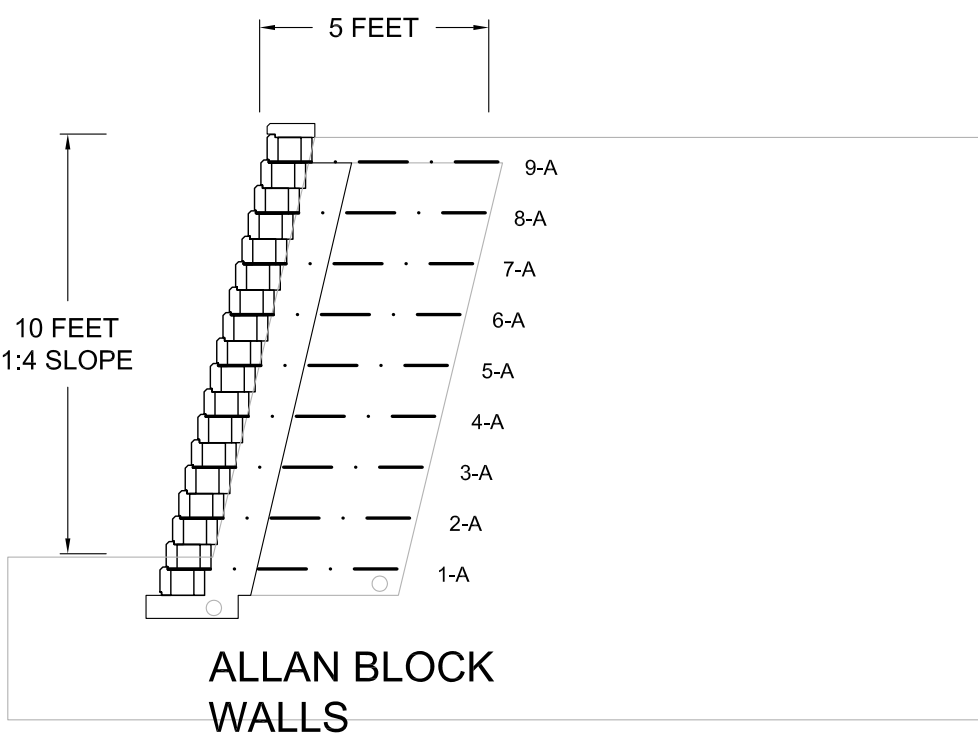
Phase I:		
Volume of Cut:	16,570 cy	
Volume of Fill:	25,112 cy	
Area of Disturbance	273,765 sf	
Depth of Disturbance	0.1 ft	
Waste	1,014 cy	
Consolidation	12 %	1,988 cy
Barrow Volume		12,000 cy
Net Import (Export)		(456) cy
Site to Balance		0.05 ft

NON-PLOTTABLE EASEMENTS:
-PIPELINE EASEMENT PER 124 OR 449
-OIL PIPELINE EASEMENT PER 788 OR 304 (PLOTS ON PCL B OF 30 PM 65, NOT ON PCL C)

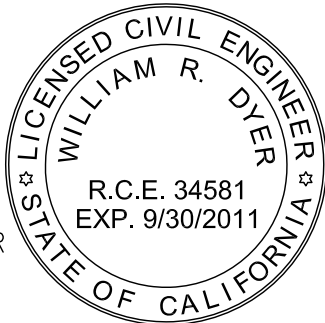
LEGEND

- EXISTING CONTOUR
- FINISHED GRADE CONTOUR
- PROPERTY LINE
- FENCE LINE
- BUILDING LINE
- WEEP LINE
- STORM DRAIN
- DROP INLET
- TOP OF PAVEMENT
- FINISHED SURFACE
- EXISTING GRADE
- FINISHED GRADE
- TOP OF CURB
- FINISHED FLOOR
- EXISTING
- PROPOSED
- RETAINING WALL LABEL W/H/HEIGHT
- EXIST. OAK TREE TO REMAIN
- EXIST. OAK TREE TO BE REMOVED

(NOTE: ELEVATION ARE FINISHED SURFACE UNLESS OTHERWISE NOTED)



TYPE A
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
REINFORCED CONCRETE CRIB WALL
BATTERED WALL-
TYPE A
NO SCALE
WALLS OVER 10
FT



PRELIMINARY GRADING & DRAINAGE PLAN
Coastal Christian School - PHASE I
705 Oak Park Blvd, Pismo Beach
Parcel C, PM CO 78-249, County of San Luis Obispo, CA

DATE: 2/10/10
DRAWN: BD
DESIGN: WRD
SCALE: 1"=60'
JOB NO: COA08244
SHEET:

C-1
OF SHEETS

William R. Dyer
Civil Engineering - Land Surveying
158 North 8th Street, Suite B
Pismo Beach, CA 93448-0432
Phone: (805) 461-1223
Fax: (805) 461-1323



EARTHWORK ESTIMATES:		
Whole Site:		
Volume of Cut:	60,699 cy	
Volume of Fill:	49,016 cy	
Area of Disturbance:	668,864 sf	
Depth of Disturbance:	0.1 ft	
Waste:	2,477 cy	
Consolidation:	15 %	9,105 cy
Net Import (Export):		(101) cy

NON-PLOTTABLE EASEMENTS:

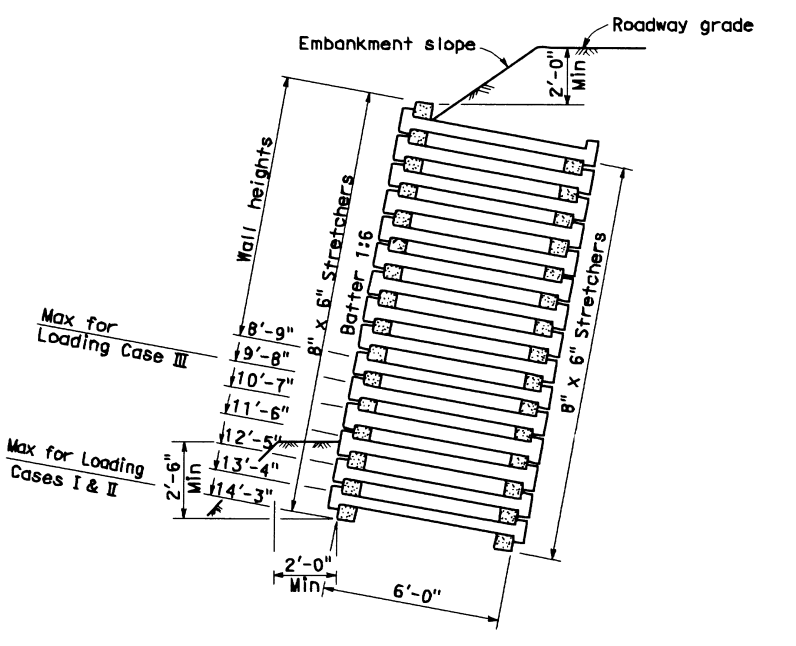
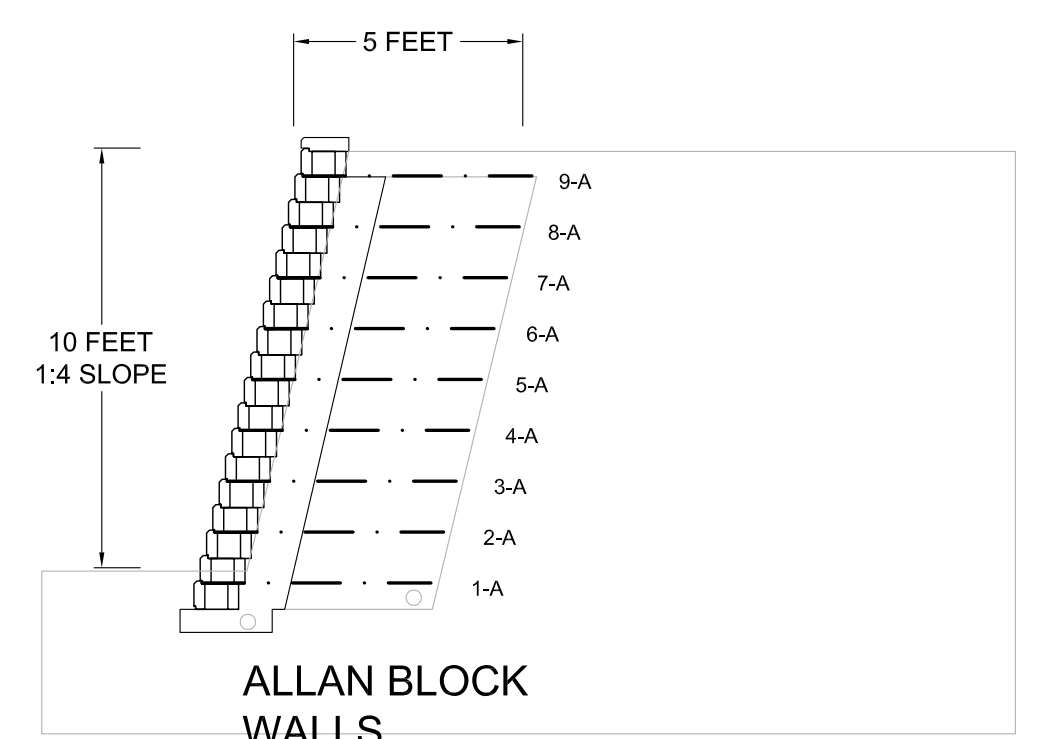
-PIPELINE EASEMENT PER 124 OR 449

-OIL PIPELINE EASEMENT PER 788 OR 304 (PLOTS ON PCL B OF 30 PM 65, NOT ON PCL C)

LEGEND

- 60' EXISTING CONTOUR
- 60' FINISHED GRADE CONTOUR
- PROPERTY LINE
- FENCE LINE
- BUILDING LINE
- WEEP LINE
- SD - SD STORM DRAIN
- DI - DI DROP INLET
- TP - TP TOP OF PAVEMENT
- FS - FS FINISHED SURFACE
- EG - EG EXISTING GRADE
- FG - FG FINISHED GRADE
- TC - TC TOP OF CURB
- FF - FF FINISHED FLOOR
- (E) - (E) EXISTING
- (P) - (P) PROPOSED
- 6' - 6' RETAINING WALL LABEL W/HEIGHT
- 8" OAK - 8" OAK EXIST. OAK TREE TO REMAIN
- X 8" OAK - X 8" OAK EXIST. OAK TREE TO BE REMOVED

(NOTE: ELEVATION ARE FINISHED SURFACE UNLESS OTHERWISE NOTED)



TYPE A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**REINFORCED CONCRETE CRIB WALL
BATTERED WALL -
TYPE A**

NO SCALE

WALLS OVER 10 FT



REVISION

DATE

William R. Dyer

Civil Engineering

155 North 8th Street, Suite B
Grover Beach, CA 93426
Phone: (805) 981-1223
Fax: (805) 981-1323

PRELIMINARY GRADING & DRAINAGE PLAN

Coastal Christian School - PHASE II

705 Oak Park Blvd, Pismo Beach

Parcel C, PM CO 78-249, County of San Luis Obispo, CA

DATE: 2/10/10

DRAWN: BD

DESIGN: WRD

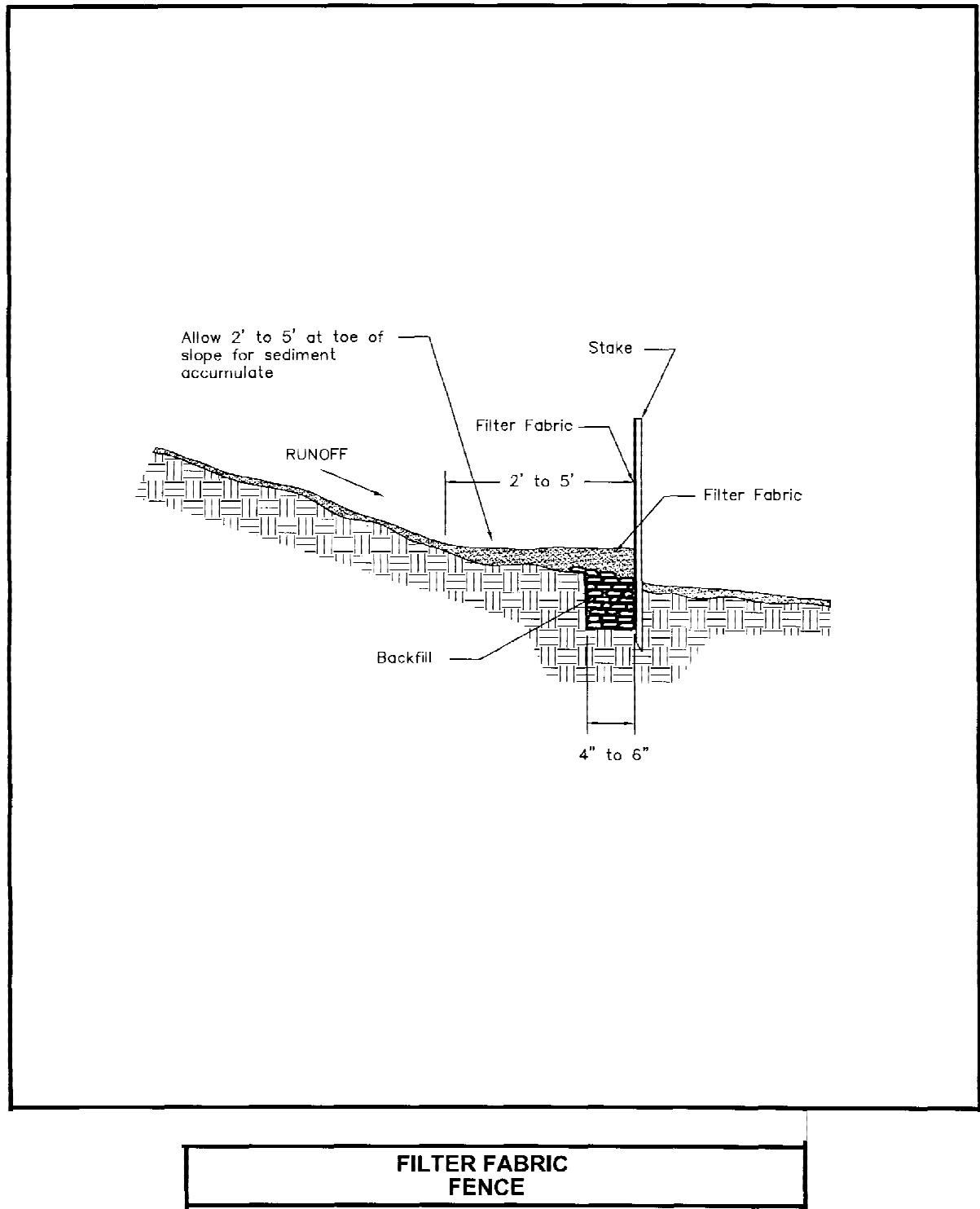
SCALE: 1" = 60'

JOB NO: COA08244

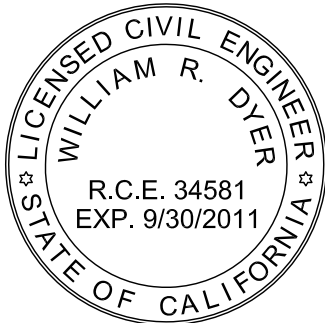
SHEET:

C-2

OF SHEETS



Date:	5/27/2009						
Client:	Coastal Christian School						
Project:	Old Oak Park Road, Pismo Beach						
DRAINAGE CALCULATIONS:							
Existing Site Area:	26.82 ac						
Area Draining to Detention Basin:	21.40 ac						
Proposed Impervious Surfaces:	8.95 ac						
Runoff Coefficients							
Undeveloped Areas (Pervious):							
Relief:	0.28						
Soil Infiltration:	0.10						
Vegetal Cover:	0.08						
Surface Storage:	0.09						
Total (C Pre-developed):	0.55						
Impervious Areas:	0.95						
C Composite (Post-Development):	0.72						
Rainfall Data							
Average Annual Rainfall	18 in/yr						
Time of Concentration - Less than	10 min						
Rainfall Intensity - I (2yr,10min):	1.70 in/hr						
Rainfall Intensity - I (50yr, 10min):	3.70 in/hr						
Discharge Data							
Discharge - Q (2yr,10min) (Pre-developed):	20.01 cfs						
Discharge - Q (50yr,10min) (Post-Developed):	56.80 cfs						
Design Detention basin for maximum outflow of 20.01 cfs, inflow 50 yr storm							
From Hydralfow Hydrographs:							
Storm In	Q in - cfs	Storm Out	Target Max Q out - cfs	Max Depth	Outlet Size	Actual Q Out	Req'd Storage
50-10	56.80	2-10	20.01	4.00	18	15.34	20,986
50-15	46.51	2-10	20.01	4.00	18	15.34	23,754
50-20	40.27	2-10	20.01	4.00	18	15.34	21,761
50-30	32.36	2-10	20.01	4.00	18	15.34	17,815
50-40	27.46	2-10	20.01	4.00	18	15.34	11,862
50-50	24.07	2-10	20.01	4.00	18	15.34	5,413
50-60	21.57	2-10	20.01	4.00	18	15.34	
Proposed 18" Outlet with Overflow at Elev. 154.00. Bottom Elevation = 150.50, WS Elevation = 151.25, Top Basin = 155.00							
Low Impact Development Discussion:							
The sites proposed drainage basin represents the primary tool by which the projects drainage impacts are mitigated. The basin bleed-off pipe size will limit the peak flow to 15.34 cfs which is below the 2 yr undrained run-off rate of 20.01 cfs. In addition, 0.46 acres of impervious pavers will be proposed in order to absorb small but more frequent rain storm events. As a result, there will be a significant overall reduction in the quantity of storm water leaving the site in the developed state versus the current undeveloped state.							



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PRELIM. CHANNELIZATION PLAN - DRAINAGE CALCS
Coastal Christian School - PHASE I
705 Oak Park Blvd, Pismo Beach
Parcel C, PM CO 78-249, County of San Luis Obispo, CA

DATE: 2/10/10
DRAWN: BD
DESIGN: WRD
SCALE: 1"=40'
JOB NO: COA08244
SHEET:

C-3

OF SHEETS